# DCG12-65 12 Volt 65 AH

## Rechargeable Sealed Lead Acid Battery
## Power-Gel Series™

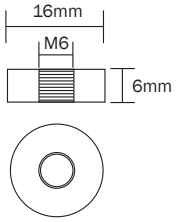
*We've Got The Power.™*

## Features

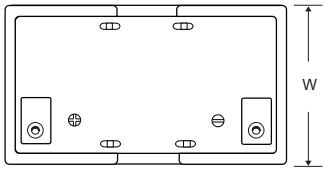
- Thixotropic gel electrolyte for enhanced performance
- Valve regulated, spill proof construction allows safe operation in any position
- Superior capabilities
- Power/volume ratio yielding unrivaled energy density
- Rugged ABS plastic (UL94-HB) case and cover
- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified
- U.L. recognized - MH 20845
- CE compliant

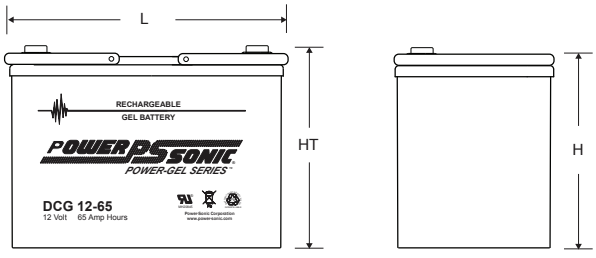
## Terminals (mm)

- T6: Threaded insert w. 6 mm stud fastener




## Physical Dimensions: in(mm)



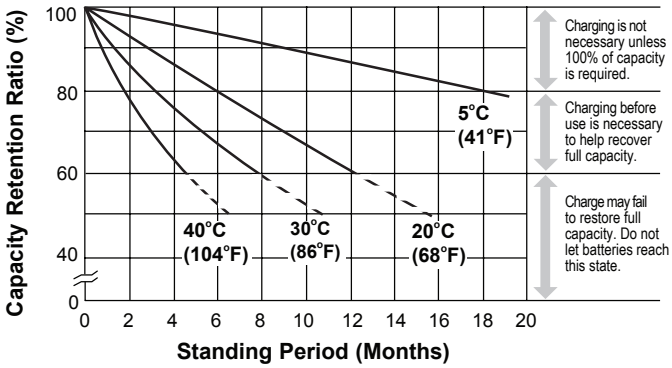

**L:** 10.25 (260) **W:** 6.60 (168) **H:** 8.15 (207) **HT:** 8.98 (228)

Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

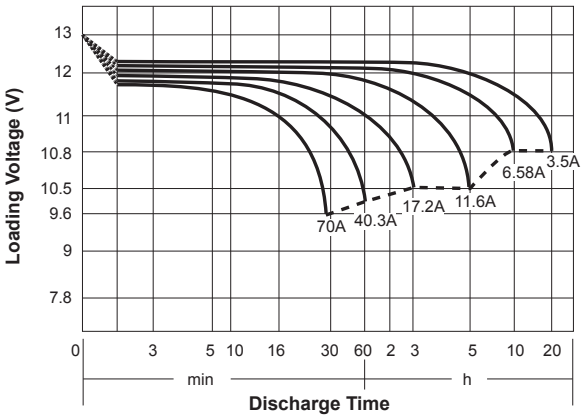
## Performance Specifications

| | |
|---|---|
| Nominal Voltage | 12 volts (6 cells) |
| Nominal Capacity | |
| 20-hr. (3.25A to 10.5 volts) | 65.0 AH |
| 10-hr. (6.00A to 10.5 volts) | 60.0 AH |
| 5-hr. (11.60A to 10.5 volts) | 58.0 AH |
| 3-hr. (17.20A to 10.5 volts) | 51.6 AH |
| 1-hr. (40.3A to 9.0 volts) | 40.3 AH |
| Approximate Weight | 48.0 lbs. (21.8 kg) |
| Energy Density (20-hr. rate) | 1.41 W-h/in3 (86.33 W-h/l) |
| Specific Energy (20-hr. rate) | 16.25 W-h/lb (35.83 W-h/kg) |
| Internal Resistance (approx.) | 4.5 milliohms |
| Shelf Life (% of nominal capacity at 68°F (20°C)) | |
| 1 Month | 0.97 |
| 3 Months | 0.91 |
| 6 Months | 0.83 |
| Operating Temperature Range | |
| Charge | -4°F (-20°C) to 122°F (50°C) |
| Discharge | -40°F (-40°C) to 140°F (60°C) |
| Case | ABS Plastic (UL94 HB) |
| Recommended Power-Sonic Chargers | n/a |

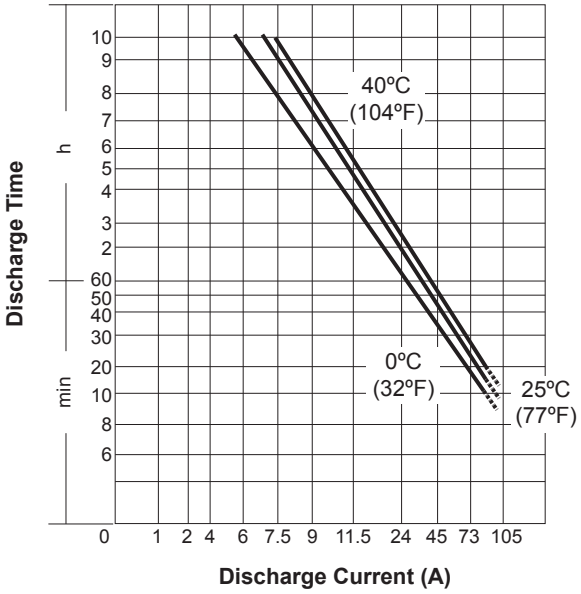
## Shelf Life & Storage


Capacity Retention Ratio (%)
100
80
60
40
0
0 2 4 6 8 10 12 14 16 18 20
Standing Period (Months)
5°C (41°F)
40°C (104°F)
30°C (86°F)
20°C (68°F)
Charging is not necessary unless 100% of capacity is required.
Charging before use is necessary to help recover full capacity.
Charge may fail to restore full capacity. Do not let batteries reach this state.

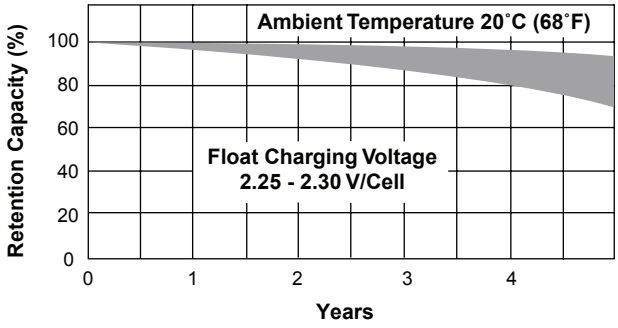
## Discharge Characteristics



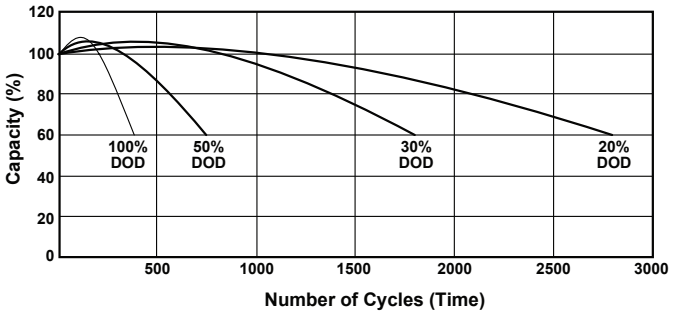

## Discharge Time vs. Discharge Current




## Life Characteristics in Stand-By Use




## Life Characteristics in Cyclic Use




## Charging

**Cycle Applications:** Limit initial current to 19.5A. Charge until battery voltage (under charge) reaches 13.90 to 14.20 volts at 68°F (20°C). Hold at 13.90 to 14.20 volts until current drops to under 650mA. Battery is fully charged under these conditions, and charger should be disconnected or switched to "float" voltage.

**"Float" or "Stand-By" Service:** Hold battery across constant voltage source of 13.50 to 13.80 volts continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

**Note:** Due to the self-discharge characteristics, it is imperative that they be charged within 6 months of storage, otherwise permanent loss of capacity might occur as a result of sulfation.

## Chargers

Power-Sonic offers a wide range of chargers suitable for batteries up to 100AH. Please refer to the Charger Selection Guide in our specification sheets for "C-Series Switch Mode Chargers" and "Transformer Type A and F Series". Please contact our Technical department for advice if you have difficulty in locating suitable models.

## Further Information

Please refer to our website www.power-sonic.com for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc..

## Contact Information

www.power-sonic.com

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